## CBCS SCHEME

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## Sixth Semester B.E. Degree Examination, July/August 2022 **History of Flight & Technology Forecast**

Max. Marks: 100 Time: 3 hrs.

		N	ote: Answer any FIVE full questions, choosing ONE full question from each n	iodule.
ce.			Module-1	
as malpractice.	1	a.	With relevant figure, briefly explain about the ornithopters.	(10 Marks)
ılpra		b.	Write a short note on Balloon flight.	(10 Marks)
s ms				(10 1/1111)
			OR	ř
k pages. will be treated	2	a.	Write short note on:	
SS.			(i) The Glider man.	
oage III b			(ii) The Interregnum.	(10 Marks)
nk r		b.		(IO MARKS)
g blan = 50,			(i) The true inventor of Airplane.	
ing -8-			(ii) Extending the Glider tradition.	(10 Marks)
taining 42+8			(ii) Extending the Order tradition.	(10 Marks)
rem eg,			Module-2	
the	3	a.	Discuss briefly about the development of aircraft over the years.	(10 Marks)
on wri	3	b.	Write short note on biplanes and monoplanes.	(10 Marks)
nes		U.	write short note on orpitales and monopianes.	(TO Warks)
ss li atic				
cros	4	9	Explain the concept of aircraft triangle with relevant sketches.	(10 Movies)
nal /or		a. b.	Write short note on first practical approach on Airplane by Wright brothers.	(10 Marks)
ago and		υ.	write short note on first practical approach on Airplane by Wright brothers	(10 Marks)
v di tor			Module 2	
ompulsorily draw diagonal cross lines on the remappeal to evaluator and /or equations written eg,	5	0	Module-3  Draw a neat labeled sketch of an airplane, name its components and briefly of	valoin about
illy	3	a.	their functions.	_
Isor al to	9.0	h		(12 Marks)
ndu		b.	Write a short note on conventional control.	(08 Marks)
con			OD	
completing your answers, c revealing of identification,	1		OR Disclay and lain the following.	
fica	O		Briefly explain the following:	
r ar enti	St.		Powered control.	
you	1018		Basic instrument for flying	
ing o gu	7 100	C	Different types of flight vehicles.	(20.75
plet		d.	Control actutation.	(20 Marks)
om				
On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Any revealing of identification, appeal to evaluator and /or equations written eg, $42+8=50$ , will be	-	_	Module-4	3
	7	a.	Briefly explain:	10 1
0			(i) Monocoque.	.il
Not	A		(ii) Semi monocoque.	7. E
oortant Note : 1	r offi	1	(III) Geodesic constituctions.	(15 Marks)
oort		b.	Briefly explain Hooke's law with relevant figure.	(05 Marks)

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		OR	(10 Marks)
8	a.	Write a short note on metallic and non metallic materials.	(10 Marks)
	b.	Discuss the importance and application of aluminium alloy in aircraft.	(10 Marks)
		26.11.5	
		Module-5	(10 Marks)
9	a.	With relevant sketch, explain the working principles of operation of rocket.	(10 Marks)
	b.	List out the different types of rockets and explain about it with applications.	(TO IVIAIRS)
		OR	
4.0			
10		Write short note on:	
	a.	Piston engines.	
	b.	Jet engines.	
	C.	Turbo prop.	(20 Marks)
	d.	Exploration into space.	
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